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IN THE CLAIMS:

1. *(currently amended)* A customer-based interruptible power supply module for removing interruptible loads from service while maintaining firm loads in service, said module comprising:

a power line input, said power line input divided between a firm power load line and an interruptible power load line, said firm power load line exiting said module as a firm power output;

a normally-closed interruptible power switch disposed in series with said interruptible power load ~~power~~ line, the output of said interruptible power load line exiting said module as an interruptible power output; and

a load interrupting actuation device, coupled to said interruptible power switch and responsive to an "interrupt" control signal, transmitted by an alternative communication network to said customer-based interruptible power supply module, where upon reception of said "interrupt" control signal, said interruptible power switch opens and disconnects the interruptible power load line from the power input line.

2. *(currently amended)* A customer-based interruptible power supply module as defined in claim 1 wherein the normally-closed interruptible power switch comprises

a power contact hold coil and a normally-closed load interrupting actuating device auxiliary contact disposed in series between the red and neutral leads of the power line input;

a first power contact disposed along the red lead; and

a second power contact disposed along the black lead, wherein as long as the power contact hold coil is energized, said first and second power contacts remain closed and the interruptible load power input flows through said switch to the interruptible power output, and when an "interrupt" control signal is received the normally-closed load interrupting actuating device opens to de-energize said power contact hold coil and open said first and second power contacts, disconnecting said interruptible load power load line input from said interruptible power output.

3. *(original)* A customer-based interruptible power supply module as defined in claim 2 wherein the normally-closed interruptible power supply switch further comprises

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an interruption blocking timer to control the length of time the interruptible power supply switch is in the open position.

4. *(original)* A customer-based interruptible power supply module as defined in claim 3 wherein the interruption blocking timer re-activates said interruptible power supply switch after a predetermined time interval.

5. *(original)* A customer-based interruptible power supply module as defined in claim 4 wherein the predetermined time interval is not to exceed 30 minutes.

6. *(original)* A customer-based interruptible power supply module as defined in claim 5 wherein the predetermined time interval is not to exceed 15 minutes.

7. *(original)* A customer-based interruptible power supply module as defined in claim 3 wherein the interruption blocking timer comprises

an interruption blocking timer coil disposed in parallel with the power contact hold coil between the red and neutral power leads; and

a normally-open interruption blocking contact disposed in parallel with the normally-closed load interrupting actuating device auxiliary contact.

8. *(currently amended)* A customer-based interruptible power supply module as defined in claim 1 wherein the normally-closed interruptible power supply switch further comprises

a cold load timer for providing an additional delay ~~to~~ for re-activating the interruptible power supply load line after a power outage.

9. *(currently amended)* A customer-based interruptible power supply module as defined in claim 8 wherein the cold load timer comprises

a cold load coil disposed between the red and neutral leads of the input power line and controlled by a time-delay-pick-up element to be re-energized a predetermined period of time after a power outage; and

a cold load contact disposed in series with the normally-closed load interrupting actuating device auxiliary contact, said cold load contact for remaining open as long as said cold load coil is de-energized, disconnecting the signal path between the interruptible load power load line input from the interruptible power output.

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10. *(original)* A customer-based interruptible power supply module as defined in claim 1 wherein the designation between firm load and interruptible load is determined by the customer.

11. *(original)* A customer-based interruptible power supply module as defined in claim 1 wherein the load interrupting actuating device is responsive to an "interrupt" control signal transmitted by a telecommunications carrier to the customer.

12. *(currently amended)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads, the arrangement comprising a power utility sensing arrangement for determining the need to clip power supplied to a customer base comprising a plurality of N customers, and transmitting a "clip load" control signal to a communications network also coupled to the customer base;

a plurality of N interruptible power supply modules, each module disposed at a separate customer location and comprising

a power line input, said power line input divided between a firm power load line and an interruptible power load line, said first power load line exiting said module as a firm power output;

a normally-closed interruptible power switch disposed in series with said interruptible power load line, the output of said interruptible power load line exiting said module as an interruptible power output; and

a load interrupting actuation device, coupled to said interruptible power switch and responsive to an "interrupt" control signal, transmitted by an alternative communication network to said customer-based interruptible power supply module, where upon reception of said "interrupt" control signal, said interruptible power switch opens and disconnects the interruptible power load line from the power input line.

13. *(currently amended)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 12 wherein the normally-closed interruptible power switch comprises

a power contact hold coil and a normally-closed load interrupting actuating device auxiliary contact disposed in series between the red and neutral leads of the power line input;

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a first power contact disposed along the red lead; and  
a second power contact disposed along the black lead, wherein as long as the power contact hold coil is energized, said first and second power contacts remain closed and the interruptible load power input flows through said switch to the interruptible power output, and when an "interrupt" control signal is received, the normally-closed load interrupting actuating device opens to de-energize said power contact hold coil and open said first and second power contacts, disconnecting said interruptible ~~load~~ power load line input from said interruptible power output.

14. *(original)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 13 wherein the normally-closed interruptible power supply switch further comprises

an interruption blocking timer to control the length of time the interruptible power supply switch is in the open position.

15. *(original)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 14 wherein the interruption blocking timer re-activates said interruptible power supply switch after a predetermined time interval.

16. *(original)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 15 wherein the predetermined time interval is not to exceed 30 minutes.

17. *(original)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 16 wherein the predetermined time interval is not to exceed 15 minutes.

18. *(original)* An arrangement for allowing a power utility to drop power supply input to customer-defined interruptible loads as defined in claim 14 wherein the interruption blocking timer comprises

an interruption blocking timer coil disposed in parallel with the power contact hold coil between the red and neutral power leads; and

a normally-open interruption blocking contact disposed in parallel with the normally-closed load interrupting actuating device auxiliary contact.

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19. *(currently amended)* A customer-based interruptible power supply module as defined in claim 12 wherein the normally-closed interruptible power supply switch further comprises

a cold load timer for providing an additionally delay ~~to~~ for re-activating the interruptible power supply load line after a power outage.

20. *(currently amended)* A customer-based interruptible power supply module as defined in claim 19 wherein the cold load timer comprises

a cold load coil disposed between the red and neutral leads of the input power line and controlled by a time-delay-pick-up element to be re-energized a predetermined period of time after a power outage; and

a cold load contact disposed in series with the normally-closed load interrupting actuating device auxiliary contact, said cold load contact for remaining open as long as said cold load coil is de-energized, disconnecting the signal path between the interruptible load power load line ~~input~~ from the interruptible power output.

21. *(original)* A customer-based interruptible power supply module as defined in claim 12 wherein the designation between firm load and interruptible load is determined by the customer.

22. *(original)* A customer-based interruptible power supply module as defined in claim 12 wherein the load interrupting actuating device is responsive to an "interrupt" control signal transmitted by a telecommunications carrier to the customer.